

Appl. No. 10/027,343  
Amendment dated June 12, 2003  
Reply to Office Action of March 24, 2003

### AMENDMENTS

#### Amendment to the title

The title of the invention should be: RECONFIGURABLE SURGICAL APPARATUS.

Applicants respectfully request this change as an obvious typographical/grammar error.

#### Amendments to the claims

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1. (original) A reconfigurable surgical apparatus, comprising:  
a surgical instrument assembly formed with a hollow manipulation shaft receiving a prime mover activated by an actuator located at a proximal end of the shaft;  
a coupler formed about a distal end of the shaft and having a capture ledge; and  
an interchangeable surgical tool attachable to the coupler and including an anchor adapted to releasably mate to the capture ledge.
  2. (original): The apparatus according to claim 1, wherein the capture ledge is further formed in the coupler to define at least one lateral slot adapted to releasably receive the anchor.
  3. (original): The apparatus according to claim 2, wherein the anchor is formed as a generally hook shaped tine having an end sized for releasable receipt into the slot.
  4. (original): The apparatus according to claim 1, wherein the anchor is formed with at least one generally hook shaped tine that includes an engagement face adapted to releasably engage the capture ledge.

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5. (original): The apparatus according to claim 1, wherein the anchor is formed with a frangible portion.

6. (original): The apparatus according to claim 5, wherein the frangible portion is further formed to define at least one shear notch.

7. (original): The apparatus according to claim 2, wherein the anchor is formed with a frangible portion adapted to be removably received in the slot after the frangible portion of the anchor has been severed.

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8. (original): A reconfigurable surgical apparatus, comprising:  
a surgical instrument assembly formed with a hollow manipulation shaft receiving a prime mover activated by an actuator located at a proximal end of the shaft;  
a coupler formed about a distal end of the shaft having a capture ledge that defines a slot in the coupler; and  
an interchangeable surgical tool adapted to connect to the coupler comprising a frangible portion and an anchor adapted to releasably mate to the capture ledge, the frangible portion being adapted for receipt in the slot after the anchor has been removed from the tool.

9. (original): A reconfigurable surgical apparatus, comprising:  
a surgical instrument assembly formed with a hollow manipulation shaft receiving a prime mover activated by an actuator located at a proximal end of the shaft;

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a coupler formed about a distal end of the shaft having a capture ledge that defines a lateral slot in the coupler; and

an interchangeable surgical tool for attachment to the coupler and formed with an anchor having a shear notch, the anchor being adapted to releasably mate to the capture ledge and to be severed from the tool about the notch.

10. (original): A reconfigurable surgical apparatus, comprising:

a surgical instrument assembly formed with a hollow manipulation shaft receiving a prime mover activated by an actuator located at a proximal end of the shaft;

a coupler formed about a distal end of the shaft and incorporating an anchor; and

an interchangeable surgical tool adapted to connect to the coupler and formed with a capture ledge adapted to releasably mate to the anchor.

11. (original): The apparatus according to claim 10, wherein the capture ledge is further formed in the tool to define at least one lateral slot adapted to releasably receive the anchor.

12. (original): The apparatus according to claim 11, wherein the anchor is formed as a generally hook shaped tine having an end sized for releasable receipt into the slot.

13. (original): The apparatus according to claim 10, wherein the anchor is formed with at least one generally hook shaped tine that includes an engagement face adapted to releasably engage the capture ledge.

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14. (original): A reconfigurable surgical apparatus, comprising:

a surgical instrument assembly formed with a hollow manipulation shaft receiving a prime mover activated by an actuator located at a proximal end of the shaft;

a coupler formed about a distal end of the shaft to have a generally hook shaped anchor having an engagement face; and

an interchangeable surgical tool formed at an end with a capture ledge that defines a lateral slot in the tool, the ledge being adapted to releasably mate to the engagement face.

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15. (original): A reconfigurable surgical apparatus, comprising:

a surgical instrument assembly formed with a hollow manipulation shaft receiving a prime mover activated by an actuator located at a proximal end of the shaft;

a coupler formed about a distal end of the shaft and formed with an anchor; and

an interchangeable surgical tool configured to connect to the coupler and formed with a reciprocating capture member adapted to releasably mate to the anchor.

16. (original): The apparatus according to claim 15, wherein the capture member is further formed in the tool to define at least one lateral recess adapted to releasably receive the anchor.

17. (original): The apparatus according to claim 16, wherein the anchor is formed as a generally hook shaped tine having an end sized for releasable receipt into the recess.

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18. (original): The apparatus according to claim 15, wherein the anchor is formed with at least one generally hook shaped tine that includes an engagement face adapted to releasably engage the capture ledge.
19. (original): A reconfigurable surgical tool, comprising:  
a surgical instrument assembly formed with a hollow manipulation shaft receiving a prime mover activated by an actuator located at a proximal end of the shaft;  
a coupler formed about a distal end of the shaft and including a receiver having an engagement ledge and shelf; and  
an interchangeable surgical tool attachable to the coupler that includes an engager adapted to releasably mate to the receiver.
20. (original): The apparatus according to claim 19, wherein the receiver further defines a generally hook shaped recess adapted to releasably mate to the engager.
21. (original): The apparatus according to claim 19, wherein the engager is further formed with a generally hook shaped projection adapted to releasably mate to the receiver.
22. (original): The apparatus according to claim 19, wherein the engager is formed with a frangible portion.
23. (currently amended): The apparatus according to claim ~~19~~ 22, wherein the frangible portion is further formed to define at least one shear notch.

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24. (original): A reconfigurable surgical tool, comprising:

a surgical instrument assembly formed with a hollow manipulation shaft receiving a prime mover activated by an actuator located at a proximal end of the shaft;

a coupler formed about a distal end of the shaft and formed with an engager; and

an interchangeable surgical tool formed with a receiver formed with an engagement ledge and shelf and adapted to releasably mate to the engager.

25. (original): The apparatus according to claim 24, wherein the receiver is further formed to define a generally hook shaped recess sized to releasably receive the engager.

26. (original): The apparatus according to claim 24, wherein the engager further incorporates a generally hook shaped projection adapted for releasable receipt in the recess to releasably mate to the receiver.

27. (original): The apparatus according to claim 24, wherein the engager is formed with a frangible portion.

28. (currently amended): The apparatus according to claim 24 27, wherein the frangible portion is further formed to define at least one shear notch.

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29. (original): A means for performing an intracorporeal surgical procedure, comprising:  
a means for imparting a range of motion;  
a means for defining an intracorporeal passageway connected at a proximal end to the motion imparting means, the passageway being received with a means for transmitting the imparted range of motion;  
a means for distally coupling the passageway means that defines a means for interchangeably capturing;  
an interchangeable means for performing a surgical intervention that includes a means for releasably mating the intervention means to the capturing means; and  
wherein the interchangeable intervention means is, when mated to the capturing means, remotely actuatable by operation of the motion imparting means.

30. (original): The means for performing an intracorporeal surgical procedure according to claim 29, wherein the capturing means is further formed in the coupling means to define at least means for defining a lateral slot adapted to releasably receive the mating means.

31. (original): The means for performing an intracorporeal surgical procedure according to claim 30, wherein the mating means is formed as a generally hook shaped tine having an end sized for releasable receipt into the slot.

32. (original): The means for performing an intracorporeal surgical procedure according to claim 29, wherein the mating means is formed with at least one generally hook shaped tine that includes an engagement face adapted to releasably engage the means for capturing.

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33. (original): The means for performing an intracorporeal surgical procedure according to claim 29, wherein the means for mating is further formed with a means for defining a frangible portion of the mating means.

34. (original): The means for performing an intracorporeal surgical procedure according to claim 33, wherein the frangible portion defining means is further formed with a means to define a reduced cross section of the mating means.

35. (original): The means for performing an intracorporeal surgical procedure according to claim 30, wherein the mating means is formed with a frangible portion defining means adapted to be removably received in the slot after the frangible portion defining means has been severed.

36. (original): A means for performing an intracorporeal surgical procedure, comprising:

- a means for imparting a range of motion;
- a means for defining an intracorporeal passageway connected at a proximal end to the motion imparting means, the passageway being received with a means for transmitting the imparted range of motion;
- a means for distally coupling the passageway means that defines a means for anchoring;
- an interchangeable means for performing a surgical intervention that includes a means for releasably capturing the anchoring means; and
- wherein the interchangeable intervention means is, when mated to the anchoring means, remotely actuatable by operation of the motion imparting means.



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37. (original): The means for performing an intracorporeal surgical procedure according to claim 36, wherein the capturing means is further formed in the intervention means to define at least one means for defining a lateral slot adapted to releasably receive the anchoring means.

38. (original): The means for performing an intracorporeal surgical procedure according to claim 37, wherein the anchoring means is formed as a generally hook shaped tine having an end sized for releasable receipt into the slot.

39. (original): The means for performing an intracorporeal surgical procedure according to claim 36, wherein the anchoring means is formed with at least one generally hook shaped tine that includes an engagement face adapted to releasably engage the means for capturing.

40. (original): The means for performing an intracorporeal surgical procedure according to claim 36, wherein the means for anchoring is further formed with a means for defining a frangible portion of the anchoring means.

41. (original): The means for performing an intracorporeal surgical procedure according to claim 40, wherein the frangible portion defining means is further formed with a means to define a reduced cross section of the anchoring means.

42. (original): The means for performing an intracorporeal surgical procedure according to claim 37, wherein the anchoring means is formed with a frangible portion defining means

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adapted to be removably received in the slot after the frangible portion defining means has been severed.

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